EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	7951	"storage area network"	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/05/31 20:42
S2	10	barroux.in.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/05/31 20:44
S 3	176	libert.in.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/05/31 20:46
S4	186	S2 S3	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/05/31 20:43
S5	5161	content with distribution with network	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/05/31 20:44
S6	54610	"709"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/05/31 20:44
S7	1043	S5 and S6	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/05/31 20:44
S8	13614387	@ad<"20030630"	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON .	2007/05/31 20:44
S9	662	S7 and S8	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/05/31 20:44
S10	1213902	access	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/05/31 20:44
S11	613.	S9 and S10	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/05/31 20:45

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S12	289	router and S11	US-PGPUB;	OR	ON	2007/05/31 20:45
			USPAT; EPO; JPO; IBM_TDB			
S13	213	traffic and S12	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/05/31 20:45
S14	168	bandwidth and S13	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/05/31 20:46
S15	8222	(preferred optimal) with path	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/05/31 20:46
S16	12716	(preferred optimal) with (path route)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/05/31 20:46
S17	25	S16 and S9	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/05/31 20:47

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OverQoS: offering Internet QoS using overlays

Lakshminarayanan Subramanian, Ion Stoica, Hari Balakrishnan, Randy H. Katz January 2003 ACM SIGCOMM Computer Communication Review, Volume 33 Issue 1

Publisher: ACM Press

Full text available: pdf(722.77 KB)

Additional Information: full citation, abstract, references, citings, index terms

This paper proposes OverQoS, an architecture for providing Internet QoS using overlay networks. OverQoS empowers third-party providers to offer enhanced network services to their customers using the notion of a controlled loss virtual link (CLVL). The CLVL abstraction bounds the loss-rate experienced by the overlay traffic; OverQoS uses it to provide differential rate allocations, statistical bandwidth and loss assurances, and enables explicit-rate congestion control algorithms.

2 Consistency and replication: Modeling redirection in geographically diverse server

sets

Lisa Amini, Anees Shaikh, Henning Schulzrinne

May 2003 Proceedings of the 12th international conference on World Wide Web **WWW '03**

Publisher: ACM Press

Full text available: pdf(362.44 KB)

Additional Information: full citation, abstract, references, citings, index terms

Internet server selection mechanisms attempt to optimize, subject to a variety of constraints, the distribution of client requests to a geographically and topologically diverse pool of servers. Research on server selection has thus far focused primarily on techniques for choosing a server from a group administered by single entity, like a content distribution network provider. In a federated, multi-provider computing system, however, selection must occur over distributed server sets deployed by ...

Keywords: content distribution network (CDN), performance, server selection, web traffic redirection

Network behavior: The effectiveness of request redirection on CDN robustness Limin Wang, Vivek Pai, Larry Peterson

December 2002 ACM SIGOPS Operating Systems Review, Volume 36 Issue SI

Publisher: ACM Press

Full text available: pdf(1.86 MB)

Additional Information: full citation, abstract, references, cited by, index terms

It is becoming increasingly common to construct network services using redundant resources geographically distributed across the Internet. Content Distribution Networks are a prime example. Such systems distribute client requests to an appropriate server based on a variety of factors---e.g., server load, network proximity, cache locality--in an effort to reduce response time and increase the system capacity under load. This paper explores the design space of strategies employed to redirect reque ...

High-density model for server allocation and placement

Craig W. Cameron, Steven H. Low, David X. Wei

June 2002 ACM SIGMETRICS Performance Evaluation Review, Proceedings of the 2002 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '02, Volume 30 Issue 1

Publisher: ACM Press

Full text available: pdf(107.29 KB)

Additional Information: full citation, abstract, references, citings, index terms

It is well known that optimal server placement is NP-hard. We present an approximate model for the case when both clients and servers are dense, and propose a simple server allocation and placement algorithm based on high-rate vector quantization theory. The key idea is to regard the location of a request as a random variable with probability density that is proportional to the demand at that location, and the problem of server placement as source coding, i.e., to optimally map a source value (r ...

Keywords: content distribution, high density, server placement and allocation

5 Mobility and Wireless Access: Mobile streaming media CDN enabled by dynamic

SMIL

Takeshi Yoshimura, Yoshifumi Yonemoto, Tomoyuki Ohya, Minoru Etoh, Susie Wee May 2002 Proceedings of the 11th international conference on World Wide Web WWW '02

Publisher: ACM Press

Full text available: R pdf(623.98 KB)

Additional Information: full citation, abstract, references, citings, index terms

In this paper, we present a mobile streaming media CDN (Content Delivery Network) architecture in which content segmentation, request routing, pre-fetch scheduling, and session handoff are controlled by SMIL (Synchronized Multimedia Integrated Language) modification. In this architecture, mobile clients simply follow modified SMIL files downloaded from a streaming portal server; these modifications enable multimedia content to be delivered to the mobile clients from the best surrogates in the CD \dots

Keywords: CDN, SMIL, mobile network, streaming media

Session 1: DNS: King: estimating latency between arbitrary internet end hosts

Krishna P. Gummadi, Stefan Saroiu, Steven D. Gribble

November 2002 Proceedings of the 2nd ACM SIGCOMM Workshop on Internet measurment IMW '02

Publisher: ACM Press

Full text available: pdf(1.40 MB)

Additional Information: full citation, abstract, references, citings, index terms

The ability to estimate network latencies between arbitrary Internet end hosts would enable new measurement studies and applications, such as investigating routing path inefficiencies on a wide-scale or constructing topologically sensitive overlay networks: In this paper we present King, a tool that accurately and quickly estimates the latency between arbitrary end hosts by using recursive DNS queries in a novel way. Compared to previous approaches, King has several advantages. Unlike IDMaps, Ki ...

Keywords: latency measurement tool, recursive DNS

7 Characterizing the scalability of a large web-based shopping system

August 2001 ACM Transactions on Internet Technology (TOIT), Volume 1 Issue 1

Publisher: ACM Press

Full text available: pdf(261.91 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

This article presents an analysis of five days of workload data from a large Web-based shopping system. The multitier environment of this Web-based shopping system includes Web servers, application servers, database servers, and an assortment of load-balancing and firewall appliances. We characterize user requests and sessions and determine their impact on system performance scalability. The purpose of our study is to assess scalability and support capacity planning exercises for the multit ...

Keywords: capacity planning, clustering, personalization, scalability analysis, web-based systems, workload characterization

8 Topology and routing: Topology modeling via cluster graphs

Balachander Krishnamurthy, Jia Wang

November 2001 Proceedings of the 1st ACM SIGCOMM Workshop on Internet Measurement IMW '01

Publisher: ACM Press

Full text available: pdf(782.02 KB)

Additional Information: full citation, abstract, references, citings, index terms

Several recent studies have focused on generating Internet topology graphs. Topology graphs have been used to predict growth patterns of prefixes and traffic flow as well as for designing better protocols. Internet topology graphs can be studied at eitherm interdomain level or router level. For some applications, inter-domain level topology graph is too coarse, while router level topology graph may be too fine-grained. We introduce cluster graphs as a way of modeling Internet topology at ...

9 Energy-conserving data placement and asynchronous multicast in wireless sensor

networks

Sagnik Bhattacharya, Hyung Kim, Shashi Prabh, Tarek Abdelzaher

May 2003 Proceedings of the 1st international conference on Mobile systems, applications and services MobiSys '03

Publisher: ACM Press

Full text available: pdf(222.77 KB)

Additional Information: full citation, abstract, references, cited by, index terms

In recent years, large distributed sensor networks have emerged as a new fast-growing application domain for wireless computing. In this paper, we present a distributed application-layer service for data placement and asynchronous multicast whose purpose is power conservation. Since the dominant traffic in a sensor network is that of data retrieval, (i) caching mutable data at locations that minimize the sum of request and update traffic, and (ii) asynchronously multicasting updates from sensors ...

Results (page 1): +"content distribution network" proximity gos priority "routing path" op... Page 4 of 7

September 2001 Proceedings of the 2001 International ACM SIGGROUP Conference on

13 Session 5: WWG: a wide-area infrastructure to support groups

Joan Manuel Marquès, Leandro Navarro

Supporting Group Work GROUP '01 Publisher: ACM Press

Full text available: pdf(535.53 KB)

Additional Information: full citation, abstract, references, citings, index terms

Group learning at Internet scale is becoming more frequent in university courses. This complex process requires support by distributed computing learning support infrastructures. This paper describes the design of WWG (World-Wide Groups): a distributed and decentralized infrastructure with the aim of supporting distributed group learning and team work, centered on the distribution of events, so that every participant can be notified and thus be aware of the actions, changes, progress of the group ...

Keywords: CSCL environment, distance cooperative learning, event distribution, virtual groups

Extended abstracts: Operating system support for massive replication Arun Venkataramani, Ravi Kokku, Mike Dahlin July 2002 Proceedings of the 10th workshop on ACM SIGOPS European workshop: beyond the PC EW10 Publisher: ACM Press						
	Full text available: pdf(293.50 KB) Additional Information: full citation, abstract, references					
	The increasing number of devices used by each user to access data and services and the increasing importance of the data and services available electronically both favor "access-anywhere" network-delivered services. Unfortunately, making such services highly available is difficult. For example, even though end servers or service hosting sites advertise an availability of "four nines" (99.99%) or "five nines" (99.999%), the end-to-end service availability (as perceived by clients) istypically lim					
15	Application level performance: On the use and performance of content distribution	Г				
③						
	Full text available: pdf(2.51 MB) Additional Information: full citation, abstract, references, citings, index terms					
	Content distribution networks (CDNs) are a mechanism to deliver content to end users on					

behalf of origin Web sites. Content distribution offloads work from origin servers by serving some or all of the contents of Web pages. We found an order of magnitude increase in the number and percentage of popular origin sites using CDNs between November 1999 and December 2000.In this paper we discuss how CDNs are commonly used on the Web and define a methodology to study how well they perform. A performanc ...

16 Provisioning: Efficient and robust streaming provisioning in VPNs

Z. Morley Mao, David Johnson, Oliver Spatscheck, Jacobus E. van der Merwe, Jia Wang May 2003 Proceedings of the 12th international conference on World Wide Web WWW '03

Publisher: ACM Press

Full text available: pdf(1.06 MB)

Additional Information: full citation, abstract, references, citings, index terms

Today, most large companies maintain virtual private networks (VPNs) to connect their remote locations into a single secure network. VPNs can be quite large covering more than 1000 locations and in most cases use standard Internet protocols and services. Such

VPNs are implemented using a diverse set of technologies such as Frame Relay, MPLS, or IPSEC to achieve the goal of privacy and performance isolation from the public Internet. Using VPNs to distribute live content has recently received treme ...

Keywords: VPNs, streaming server placement

17	Session 8: systems support for multimedia: Cost-effective streaming server					
۹						
~	Damien Le Moal, Tadashi Takeuchi, Tadaaki Bandoh					
	December 2002 Proceedings of the tenth ACM international conference on Multimedia MULTIMEDIA '02					
	Publisher: ACM Press					
	Full text available: pdf(271.85 KB) Additional Information: full citation, abstract, references, citings, index terms					
	High performance and high quality for continuous media stream delivery needed by streaming server systems cannot be achieved efficiently using general-purpose operating systems, due to the overhead of the I/O mechanism implementation generally used. Special OS combined with powerful hardware can deliver better performance and quality but increases development complexity and deployment costs. The External I/O Engine Architecture adopts a hybrid approach, implementing streaming engines using the s					
	Keywords : audio/video streaming, operating system, quicktime, real-time					
18 ③	Special issue on the PAPA 2002 workshop: On the stability of network distance estimation Yan Chen, Khian Hao Lim, Randy H. Katz, Chris Overton					
	September 2002 ACM SIGMETRICS Performance Evaluation Review, Volume 30 Issue 2					
	Publisher: ACM Press					
	Full text available: pdf(947.01 KB) Additional Information: full citation, abstract, references, citings					
	Overlay network distance monitoring and estimation system can benefit many new applications and services, such as peer-to-peer overlay routing and location. However, there is a lack of such scalable system with small overhead, good usability, and good distance estimation accuracy and stability. Thus we propose a scalable overlay distance monitoring system, <i>Internet Iso-bar</i> , which clusters hosts based on the similarity of their perceived network distance, with no assumption about the under					
19	Resource management with hoses: point-to-cloud services for virtual private					
	networks					
	N. G. Duffield, Pawan Goyal, Albert Greenberg, Partho Mishra, K. K. Ramakrishnan, Jacobus					
	E. van der Merwe					
	October 2002 IEEE/ACM Transactions on Networking (TON), Volume 10 Issue 5 Publisher: IEEE Press					
	Additional Information: full citation, abstract, references, citings, index					
	Full text available: pdf(425.44 KB) Additional information: tuli citation, abstract, references, citings, index					
	As IP technologies providing both tremendous capacity and the ability to establish dynamic security associations between endpoints emerge, virtual private networks (VPNs) are going through dramatic growth. The number of endpoints per VPN is growing and the communication pattern between endpoints is becoming increasingly hard to predict. Consequently, users are demanding dependable, dynamic connectivity between endpoints, with the network expected to accommodate any traffic matrix, as long as the					

Results (page 1): +"content distribution network" proximity qos priority "routing path" op... Page 7 of 7

Keywords: point-to-cloud, point-to-multipoint, quality of service, service level agreements

Applications and architecture: P2Cast: peer-to-peer patching scheme for VoD Yang Guo, Kyoungwon Suh, Jim Kurose, Don Towsley May 2003 Proceedings of the 12th international conference on World Wide W WWW '03 Publisher: ACM Press Full text available: pdf(253.27 KB) Additional Information: full citation, abstract, references, citings, terms					y conference on World Wide Web full citation, abstract, references, citings, index
Providing video on demand (VoD) service over the Internet in a scalable way is a challenging problem. In this paper, we propose P2Cast - an architecture that uses to-peer approach to cooperatively stream video using patching techniques, while or relying on unicast connections among peers. We address the following two key techniques in P2Cast: (1) constructing an application overlay appropriate for streaming (2) providing continuous stream playback (without glitches) in the fa				2Cast - an architecture that uses a peer- ising patching techniques, while only address the following two key technical overlay appropriate for streaming; and	
Keywords : patching, peer-to-peer networks, performance evaluation, vio service					formance evaluation, video on-demand
Resu	ilts 1 - 20 of 3	38	Result page: 1	<u>2</u>	next

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